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Irrigation Efficiencies Grants Program



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Overview



The Irrigation Efficiencies Grants Program (IEGP) has been providing water for People, Farms, and Fish since 2002.





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Purpose



Instream Flow

To the benefit of anadromous fish

Through irrigation demand reduction





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History



❖ SCC and Ecology administer IEGP Program.

- ◆ Program began in 2001 through an appropriation to Ecology
- ◆ Provide grants to conservation districts
 - ◆ Assist the agricultural community;
 - ◆ Implement water conservation measures and irrigation efficiencies;
 - ◆ Target 16 critical basins - saved water benefits instream flows via Trust Water Rights Program (TWRP) at Ecology;
 - ◆ ESA listed species benefit.
- ◆ Funded via State Building Construction Account Bonds (SBCA)



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Partnerships (1)



❖ **Washington State Conservation Commission:**

- ◆ Program Management
- ◆ Technical Coordination

❖ **Ecology:**

- ◆ Water Rights
 - ◆ Validity and Extent
 - ◆ Processing
- ◆ Trust Water Rights Program
 - ◆ RCWs 90.42 and 90.38





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Partnerships (2)



❖ Conservation Districts:

- ❖ Landowner Relationships
- ❖ Project Management
- ❖ Implementation
- ❖ Monitoring

❖ WDFW:

- ❖ Biological benefit assessment

❖ Others:

- ❖ Natural Resource Conservation Service
- ❖ Washington Water Trust
- ❖ Trout Unlimited, Washington Water Projects





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Eligible Projects



Must:

- ❖ Be agricultural water from/for family farms
- ❖ Be located in a priority tributary
- ❖ Save water from a valid water right
- ❖ Increase stream flow that benefits salmonids

Might:

- ❖ Generate a downstream/out-of-stream use
- ❖ Mitigate other local water right issues



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Benefits



❖ Improve Instream Flow

◆ *Increase Fish Utilization*

◆ *Increase Fish Passage*

◆ *Increase Habitat*





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Benefits



- ❖ **Improved on-farm water management**
 - ◆ *Potential production increases*
 - ◆ *Reduced labor costs*
 - ◆ *Reduced loss of fertilizer*
- ❖ **Improved conveyance water management**
 - ◆ *Pressurized*
 - ◆ *On-demand*
- ❖ **Reduce water demand**
- ❖ **Reduce power demand**
- ❖ **Potential out of stream/downstream benefit**



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Program Totals



- ❖ **62 projects to date**
- ❖ **\$14.2 M in Financial Assistance offered**
- ❖ **15,952 acre-feet per year in Trust**
- ❖ **66 cubic feet per second in Trust
(that is 29,623 gallons per minute!)**
- ❖ **Cost per acre foot of water: \$891**

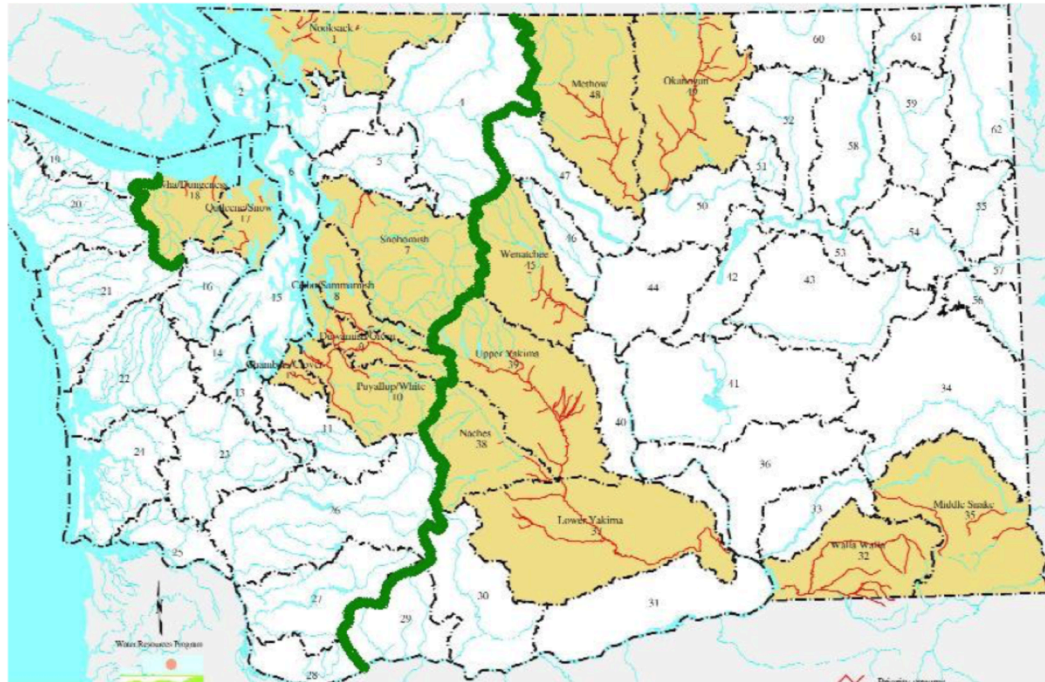


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Tributaries Enhanced



26 tributaries enhanced in 8 counties





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Asotin County



❖ Alpowa Creek

◆ 1 project





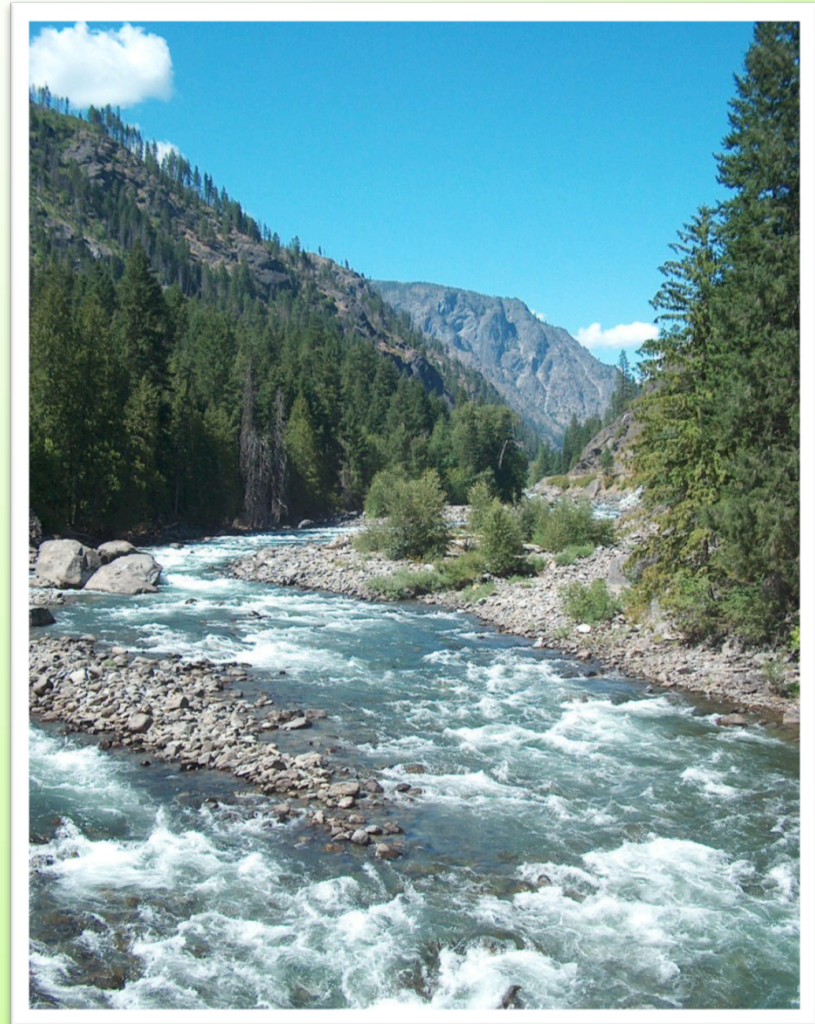
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Chelan County



❖ Wenatchee River

◆ 1 project





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Clallam County



❖ Dungeness River

◆ 15 projects





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Columbia County



❖ Tucannon River

◆ 7 projects

❖ Touchet River

◆ 2 projects





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Kittitas County



- ❖ Big Creek - 2
- ❖ Caribou Creek - 3
- ❖ Coleman Creek - 3
- ❖ Cooke Creek - 1
- ❖ Lmuma Creek - 1
- ❖ Manastash Creek - 3
- ❖ Parke Creek
- ❖ Sorenson Creek - 1
- ❖ Taneum Creek - 4
- ❖ Teanaway River - 1
- ❖ Un-name Stream - 1
- ❖ Wilson Creek - 2
- ❖ Yakima River





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Okanogan County



❖ Beaver Creek

◆ 2 projects

❖ Methow River

◆ 2 projects





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Walla Walla County



❖ Mill Creek

◆ 1 project

❖ Mud Creek

◆ 1 project

❖ Touchet River

◆ 6 projects

❖ Walla Walla River

◆ 1 project





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Yakima County



❖ Yakima River

◆ 1 project

❖ Cowiche Creek





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On-Farm Example



Beaver Creek

- Campbell Project
- 136 acres of alfalfa,
- 0.6 cubic feet per second or 151 acre feet per year
- Domino effect





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Example



Tucannon River

BLC

Bishop

Howard

BLC2

Hovrud

Frame

Hall



11 Cubic Feet per Second

890 acre feet per year



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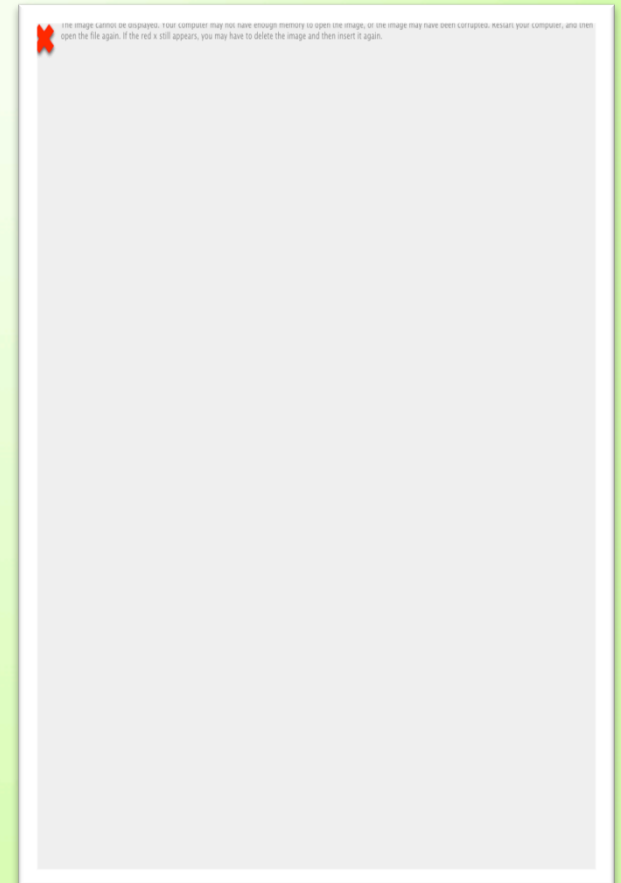
Conveyance Example



Touchet River

Eastside Irrigation District and Westside Irrigation District

- ◆ 9.5 miles of open ditch
- ◆ 6 piping projects
- ◆ 1646 acre feet per year saved
- ◆ Flow increased by 4.75 cubic feet per second or 2132 gallons per minute





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QUESTIONS ?



DEPARTMENT OF
ECOLOGY
State of Washington

